

1 reproducibility.

2 Finally, in violation of Executive Order 12866,

3 the proposal fails to perform any analysis

4 regarding the impact this rulemaking could have on

5 the environment, public health or science

6 generally -- or even on what it would cost to

7 implement. Because the Agency does not have

8 authority to undertake this effort, and because it

9 would undermine the consideration of relevant

10 science in its public health and environmental

11 rulemaking, it should be abandoned. Thank you.

12 MS. RADZIKOWSKI: Thank you. I'd like to remind

13 speakers to please speak into the microphone.

14 MS. ROSEN: Good afternoon, this testimony is on

15 behalf of Lynn Goldman. She is a pediatrician and

16 an epidemiologist and has been Dean of the Milken

17 Institute School of Public Health at the George

18 Washington University since 2010 and former

19 Assistant Administrator for Toxic Substances at

20 the US Environmental Protection Agency. My name

21 is Erika Rosen and I am delivering this oral

22 testimony on her behalf. Her full written

1 comments will be submitted for the record. This  
2 proposal suffers from lack of involvement of the  
3 scientific community, either within or outside of  
4 the EPA. No clear justification is given for why  
5 it is needed. The proposed rule is a dramatic  
6 departure from how the EPA and other US regulatory  
7 agencies, as well as similar agencies  
8 internationally, use science for the development  
9 of dose response assessments. It ignores a number  
10 of adverse downstream consequences including:  
11 risking disclosure of personal information of  
12 people volunteering for human subjects' research;  
13 delaying EPA decision. making; exacting unknown but  
14 probably considerable costs to the research  
15 community and to the EPA; and making best  
16 available science unavailable to the EPA. It  
17 creates no regulatory authority or any other  
18 mechanism for the EPA to compel submission of data  
19 from academic scientists and industry, other than  
20 those that already are accessible under the  
21 Information Quality Act of 2001, nor a mechanism  
22 for access to industry data claimed as

1 Confidential Business Information. It creates an  
2 unfortunate precedent for EPA in the creation of  
3 science policy by rulemaking. The proposal  
4 ignores the "systematic review" methods for review  
5 of evidence that have been developed, refined and  
6 improved over a number of years in the context of  
7 IRIS, pesticides, toxics, and priority air  
8 pollutants. The application of such methods has  
9 been reviewed and improved upon by the National  
10 Academy of Sciences and the National Toxicology  
11 Program. Of note is no authoritative body of  
12 experts has ever recommended requiring "raw data"  
13 in order to perform or review dose response  
14 assessments.

15 Risk assessment activities at EPA are extensive  
16 and its programs are performing more than 1,000  
17 risk assessments per year. The proposal does not  
18 consider the costs, the significant time and  
19 paperwork burdens, and major regulatory delays  
20 that will occur when EPA is waiting for data to be  
21 made publically available, which may not ever  
22 happen.

1 For years, both Congress and successive  
2 administrations have required the EPA to use the  
3 best science for its decisions. Directing EPA  
4 scientists to exclude key studies is not  
5 consistent with good scientific practice and is  
6 contrary to years of effort to improve the base  
7 underpinning EPA's decisions.  
8 The proposal misrepresents the recommendations of  
9 prior expert reviews such as the  
10 so.called NAS "Silver Book" and the Bi.Partisan  
11 Commission review. It is oblivious to NAS  
12 conclusions that thresholds of chemical exposure  
13 for chemical effects are the exception rather than  
14 the rule. Single studies are used to inform risk  
15 assessors of the possible shape of dose response  
16 curves. Instead, EPA evaluates all of the  
17 scientific information to gain a biological  
18 understanding of the "mode of action". When data  
19 do not prove mode of action, EPA often applies  
20 default assumptions such as low dose linearity for  
21 carcinogens, and certain noncancer effects that  
22 have no practically identifiable thresholds.

1 This proposed rule for the first time opens the  
2 door to EPA's scientific practices being  
3 determined by regulators, and not scientists. This  
4 is a rush down a slippery slope that would replace  
5 a scientific process with a political one and  
6 would freeze the science in procedures that  
7 certainly will not be scientifically defensible in  
8 the future. This is a breach of the fundamental  
9 notion of separating risk assessment from risk  
10 management.

11 I strongly urge the EPA administrator: (1) not to  
12 use the Agency's regulatory authority to prescribe  
13 specific risk assessment processes; and (2) not  
14 undertake changes in EPA's science policies  
15 without leadership from EPA scientists and full  
16 engagement of the science community. What is at  
17 stake is no less than the credibility of the  
18 Agency with the American public and public  
19 confidence in the integrity of EPA's science and  
20 decisions.

21 MS. RADZIKOWSKI: Thank you.

22 MS. STOBERT: Speaker 11, Gretchen Goldman, and

1 Speaker 12, Maggie Flaherty, if you would come to  
2 the stage. Speaker 13, Adam Finkel, and Speaker  
3 14, Augusta Wilson, if you'll come to the on-deck  
4 seating.

5 MS. GOLDMAN: my name is Gretchen Goldman, G-R-E-  
6 T-C-H-E-N, G-O-L-D-M-A-N. I'm the Research  
7 Director at the Center for Science and Democracy  
8 at the Union of Concerned Scientists, and I'm also  
9 a mom. As a scientist, I'm deeply troubled by  
10 this proposal. As a mom, I'm alarmed by it, and  
11 the risks that it poses to my children and others.  
12 The EPA's mission is to protect public health but  
13 this proposal does the opposite. This proposal  
14 needlessly restricts the science that EPA can use  
15 to make decisions about all of our families'  
16 health. Many crucial scientific studies that rely  
17 on public health data, intellectual property,  
18 confidential business information and other  
19 scientific information that may not be publically  
20 acceptable would be unavailable to EPA experts  
21 under this proposal. As a result, the EPA will be  
22 prevented from making rules that protect people

1 using the best available science. There is no  
2 reason for such a rule. The EPA already follows a  
3 rigorous, science-based process for determining  
4 when and how studies are used in its decisions.  
5 I've seen this first-hand when the EPA contacted  
6 me about my own scientific research. The Agency  
7 needed to obtain results data from my peer-  
8 reviewed studies looking at ambient air pollution  
9 exposure in time series' epidemiologic studies. I  
10 can attest to the fact that the EPA already  
11 ensures it is using reliable and robust scientific  
12 information to make decisions. When my son was  
13 born he spent five days in the neonatal intensive  
14 care unit because of a respiratory problem and  
15 when I took him home I knew it would be important  
16 for me to make sure that he could breathe clean  
17 air. I can't protect him from the air outside  
18 always but the EPA can. When my children breathe  
19 outside I need to know that the air is healthy.  
20 When my children play in the grass I need to know  
21 that there aren't harmful pesticides in it. When  
22 my children drink from their sippy cups, they need

1 to know -- I need to know that the water is safe.  
2 How can EPA scientists protect my family and  
3 others if they can't use the best available  
4 science?

5 I urge you to withdraw this proposal and instead  
6 focus on EPA's mission of ensuring safe water, air  
7 and land for people across the country. Thank  
8 you.

9 MS. RADZIKOWSKI: Thank you.

10 MS. FLAHERTY: Good afternoon and thank you for  
11 the opportunity to speak today. My name is Maggie  
12 Flaherty, F-L-A-H-E-R-T-Y, and I would like to  
13 express my strong opposition to the proposed,  
14 "Strengthening Transparency in Regulatory Science"  
15 rule. I would first like to emphasize that this  
16 rule proposed during Scott Pruitt's time as  
17 administrator of the EPA is a purely political  
18 decision. It is modeled after past efforts from  
19 the tobacco and fossil fuel industries for similar  
20 policies that prevent the use of science that  
21 reveals the harmful human health impacts of such  
22 industries. This proposed rule is not about



1 legitimate transparency; it is about making it  
2 harder for the EPA to make decisions based on the  
3 best available science. Under this rule studies  
4 that rely on personal health data, confidential  
5 business information, intellectual property, or  
6 studies whose data is no longer available would be  
7 excluded from the EPA's consideration when making  
8 decisions regarding regulations. When it comes to  
9 regulating things such as air pollution, water  
10 pollution and toxic substances, some of the most  
11 vital scientific information comes from studies of  
12 respiratory illnesses, cardiovascular diseases,  
13 and premature deaths, all of which rely on  
14 personal health data. If such vital studies are  
15 excluded because of this arbitrary rule, the EPA  
16 would be lacking critical public health  
17 information when making decisions that directly  
18 impact our health and environment.  
19 If EPA is truly worried about transparency in  
20 science they would listen to the voices of the  
21 numerous scientists who have come out in  
22 opposition to this proposed rule and who have,

1 additionally, suggested other ways of introducing  
2 transparency. Instead of focusing on disclosure  
3 of data that can contain confidential and private  
4 information, a rule that truly increased  
5 transparency in science would focus on funding  
6 disclosure. Despite how strict the peer review  
7 process is, people should be able to know who is  
8 funding a study. This rule proposed by the EPA  
9 does not address the issue of funding transparency  
10 at all. According to an article in the Journal of  
11 the American Medical Association if all of the  
12 EPA's proposed changes to environmental policies  
13 since the election of President Trump go into  
14 effect, the result would be at least 80,000  
15 unnecessary deaths per decade. This assessment is  
16 based on numerous scientific studies that would  
17 most likely be excluded by this rule. The EPA  
18 should not exclude studies that demonstrate the  
19 true health costs of their actions and remember  
20 their true mission of protecting our public health  
21 and the environment. I therefore urge the EPA to  
22 withdraw this proposed rule. Thank you.

1 MS. RADZIKOWSKI: Thank you.

2 MS. STOBERT: If Speaker 13, Adam Finkel, and  
3 Speaker 14, Augusta Wilson, will come to the  
4 speakers' table. Speaker 15, David Coursen, and  
5 Speaker 16, Abigail Omojola would come to the on-  
6 deck seating.

7 MR. FINKEL: Thank you. I appreciate the  
8 opportunity to comment as a former chief  
9 regulatory official at OSHA and a former member of  
10 the EPA Science Advisory Board and Board of  
11 Scientific Counselors. I support a wide spectrum  
12 of efforts to improve the transparency of the  
13 inputs to and the outputs of risk assessment and  
14 cost-benefit analysis, especially if they involve  
15 a more honest disclosure of uncertainty and  
16 variability. I will submit a recent paper I wrote  
17 with George Gray in this regard. But this  
18 proposal decreases transparency and reliability in  
19 three ways: It fails to identify a legitimate  
20 problem; it ignores closely related and glaring  
21 actual problems with regulatory analysis; and it  
22 promotes remedies that add noise while decreasing

1 signal.

2 First, the central dogma of regulatory policy

3 since 1993, and most enthusiastically touted by

4 this administration, holds that no regulation can

5 be proposed absent a real problem to be solved,

6 like market failure. Here, there is no failure of

7 the scientific market and hence no need for a

8 disruptive set of hurdles. By its own policies it

9 developed to constrain its own regulatory excess,

10 EPA should demonstrate, and not just with an

11 anecdote or two, the crisis justifying the need

12 for this proposal, or else should scrap it. I

13 note that of the five URLs the EPA provides in

14 Footnote 12 to document its claim that there is a

15 "replication crisis," two of the links are broken

16 and the other three discuss psychology and

17 clinical trials. The end points in epidemiology,

18 toxicology and exposure studies are simply not as

19 subjective as psychology experiments are. There

20 have been some problems found with clinical trials

21 but the unmeasured variability is likely much more

22 important with respect to whether a drug will cure

1 and weather a pollutant will harm.  
2 Most importantly, the EPA has cited no studies  
3 giving even guesstimate of what percentage of  
4 environmental science studies might be in need of  
5 replication or reanalysis and, of course, some of  
6 the shrill prior claims of error others have noted  
7 in the Six Cities Study have turned out to be  
8 fallacious. Surely EPA does not intend that most  
9 epi studies or bio-assays need to actually be  
10 replicated. Some epi studies can be redone but  
11 surely not natural experiments we never want to  
12 repeat such as the atomic bomb survivors study or  
13 the changes in air pollution during groundings  
14 right after 911. Lifetime animal bio-assays  
15 already use multiple doses, species and sexes and  
16 they are expensive and take years to complete.  
17 Why would we waste time and money duplicating  
18 them? And so, what if someone did try another  
19 species and got a lower potency estimate or didn't  
20 get positive results? Would we allow a rat or  
21 mouse carcinogen in unlimited quantities because  
22 it might not also be an aardvark carcinogen? I

1 don't think so. So, EPA probably means reanalyze,  
2 not replicate, and it should say so. But then EPA  
3 presents no evidence that anyone is hindering  
4 anyone else from reanalyzing anything. Any bio-  
5 acid that the EPA would use would already have  
6 individual tumor data and exposures and could be  
7 reanalyzed with any model that anyone wanted.  
8 Ditto for epi studies. But what would a  
9 reanalysis program actually do other than be  
10 costly and invite delay? What if someone  
11 reanalyzed a health study and got a different  
12 answer? One that suggests the first study had  
13 exaggerated the harm. In such a case the second  
14 study would be right and the first wrong only if  
15 both of these conditions were true. First, the  
16 difference in the results was not already  
17 acknowledged or contained within the uncertainties  
18 in each answer. If somebody claimed that banning  
19 a chemical would save between 500 and 1000 lives  
20 across the country, EPA chose to estimate it at an  
21 expected value of 750; another study that said 550  
22 would not be different from the first study at

1 all. And secondly, the first study would have to  
2 be not just different, but wrong. Anybody can  
3 take the same data and botch the risk analysis of  
4 it making seem like they have a better answer.  
5 Just like there are potential problems with an  
6 analysis that doesn't control for some variable,  
7 it can be a mistake to control for a variable that  
8 shouldn't be included.  
9 In short, EPA should never refuse to look at a  
10 study just because someone could reanalyze it but  
11 hasn't, has done so and gotten a different but not  
12 a better answer, or has done so, didn't like what  
13 it saw, and suppressed the results while claiming  
14 the original study still needs to be reanalyzed.  
15 Secondly, there is a crisis in regulatory analysis  
16 and EPA is completely ignoring it for reasons that  
17 are obvious to me. It's the economists' analysis  
18 of the costs of regulation and the values of  
19 benefits that are flawed, opaque and in need of  
20 reanalysis. Every criticism leveled at this  
21 proposal ought to first be applied to regulatory  
22 economics. They are obviously as pivotal as

1 estimates of risk. Regulatory cost estimates are  
2 notoriously biased high and they are surrounded by  
3 more uncertainty than surrounding risk estimates,  
4 but unlike risk estimates, cost estimates are  
5 rarely, if ever, presented with uncertainties and  
6 are sometimes even of the wrong side. In my  
7 written comments I'll give two examples. I have a  
8 paper newly published with Brandon Johnson. We  
9 looked at more than 1000 estimates, the value of a  
10 statistical life, certainly the most pivotal  
11 quantity in all of risk regulation derived from  
12 hundreds of studies. Only 40% of those studies  
13 gave any information about the ranges or standard  
14 deviations of the individual VSL values. So, no  
15 one can reanalyze that work to see what higher or  
16 lower values of the VSL are also compatible with  
17 the data. And perhaps the most well-known so-  
18 called study of the costs of regulation is the  
19 series of reports from Mark and Nichole Crane  
20 suggesting that regulations "cost the U.S. nearly  
21 two trillion dollars a year."

22 MS. RADZIKOWSKI: Excuse me, sir, we are out of



1 time.

2 MR. FINKEL: I'm sorry?

3 MS. FLOWERS: We are out of time, in fairness to  
4 others.

5 MR. FINKEL: I'm sorry, I didn't realize. The  
6 third one is about defaults and I will submit  
7 those, but EPA is a protection Agency, not a  
8 prediction Agency. Thank you.

9 MS. RADZIKOWSKI: Thank you.

10 MS. WILSON: Good afternoon, my name is Augusta  
11 Wilson, and I am here representing the Climate  
12 Science Legal Defense Fund. The first name is  
13 spelled A-U-G-U-S-T-A. I appreciate the  
14 opportunity to speak to you today and the Climate  
15 Science Legal Defense Fund will file more detailed  
16 written comments in the online docket for this  
17 proposed rulemaking. CSLDF is a nonprofit  
18 organization whose mission is to protect the  
19 scientific endeavor. In this capacity, we work  
20 closely with scientists at government agencies and  
21 at research institutions, so we have particular  
22 insight into how attempts to silence science

1 negatively impact both researchers on an  
2 individual level and the conduct of scientific  
3 research as a whole. There are numerous reasons  
4 why EPA should not proceed with this rule. In the  
5 time I have today I will focus on a few of the  
6 most important from the perspective of protecting  
7 the integrity of the scientific endeavor. First,  
8 studies that involve human subjects, particularly  
9 those investigating the human health impacts of  
10 exposure to environmental pollutants, are among  
11 the most relevant to EPA's core mission. In order  
12 to conduct such studies, scientists need  
13 participants willing to allow researchers access  
14 to their confidential health information. If  
15 enacted as currently proposed, this rule would  
16 make it much more difficult for scientists to  
17 credibly promise study subjects that their patient  
18 information will remain confidential. This could  
19 have deeply concerning, chilling effects on the  
20 conduct of important human health studies.  
21 Privacy concerns could influence what science gets  
22 done and what science does not get done. Lines of

1 scientific inquiry that would have been pursued  
2 may not be. The quality of data may be poorer  
3 than it otherwise would have been. Furthermore,  
4 the justification for this rule to the extent it  
5 exists seems to be based on the false premise that  
6 scientific studies cannot be adequately evaluated  
7 or reproduced unless all of their underlying data  
8 are made public. This is simply not the case. On  
9 the contrary, the reviewers can evaluate the  
10 merits of studies even when they rely on data that  
11 cannot be made publically available. This is  
12 because part of a scientist's core, fundamental  
13 training is the ability to assess research based  
14 on the strength of the experimental design and the  
15 precision with which experimental methods and  
16 analyses are described. In addition, when  
17 necessary and appropriate, reviewers, as well as  
18 other researchers seeking to reproduce or extend  
19 scientific analysis, can have confidential access  
20 to key data in conformity with privacy  
21 requirements.  
22 That said, the scientific community has certainly

1 recognized that recent technological developments  
2 allow for significant improvements in data sharing  
3 and reproducibility and that such improvements can  
4 benefit science. There are numerous scientific  
5 societies, journals, and other organizations, as  
6 well as individual researchers, who are actively  
7 engaged in a dialogue about how to improve  
8 transparency while protecting scientists and  
9 taking into account issues like patient  
10 confidentiality and proprietary business  
11 information. If EPA is genuinely concerned about  
12 these issues, it should engage deeply in this  
13 discussion and with the scientists who are having  
14 it and should move forward only in concert with  
15 them. As written, this rule which EPA professes  
16 is intended to strengthen science will ultimately  
17 do significant damage to it and to the United  
18 States' ability to lead the world in research.  
19 EPA should not promulgate such a rule. Thank you.  
20 MS. RADZIKOWSKI: Thank you.  
21 MS. STOBERT: If Speaker 15, David Coursen, and  
22 Speaker 16, Abigail Omojola, would come to the

1 speakers' table. Speaker 17, Alan Lockwood, and  
2 Speaker 18, Elizabeth Woolford, if you would come  
3 to the on-deck seating.

4 MR. COURSEN: Good afternoon. My name is David  
5 Coursen, C-O-U-R-S-E-N, and I'm here on behalf of  
6 the Environmental Protection Network, a nonprofit  
7 organization of EPA alums working to protect the  
8 Agency's progress toward clean air, water, land  
9 and climate protection. There are so many things  
10 wrong with this proposal that it's easy to  
11 downplay the most important one: The harm it will  
12 do to peoples' health and the environment. The  
13 proposal hides this in a fog of ambiguous  
14 language, meaningless generalities and vague  
15 platitudes about the value of transparency. It  
16 requires EPA to wear a blindfold when it is  
17 developing major rules by ignoring what relevant  
18 and reliable science tells us about health risks  
19 any time the raw supporting data is not publically  
20 available. Transparency is important, but it is  
21 not part of the Environmental Protection Agency's  
22 mission and certainly cannot be the basis for a

1 one-size-fits-all litmus test for when the Agency  
2 must ignore what science tells us about the risks  
3 of pollution.  
4 The laws governing EPA programs require it to  
5 consider all of the available scientific  
6 information in deciding how to protect peoples'  
7 health and the environment. Ignoring such  
8 information would be both arbitrary and unlawful.  
9 EPA rulemaking has always relied on the best  
10 available science, a principal the proposal gives  
11 lip service even as it outlines a scheme to  
12 prevent the EPA from using even the best available  
13 science if it is not "transparent." The proposal  
14 would put even the most persuasive and useful  
15 science off limits subject only to a vague and  
16 standardless exemption process. The proposal does  
17 not show that the EPA's existing practices have  
18 produced bad environmental outcomes or that  
19 increasing so-called transparency will lead to  
20 better outcomes. Those are not things the  
21 proposal seems to care about. There is no legal  
22 or environmental basis for the proposed

1 restriction and, not surprisingly, the proposal  
2 fails to mention that EPA's statutes do not allow  
3 the Agency to ignore available information about  
4 the risks of pollution. Inevitably, restricting  
5 the science EPA considers in rulemaking will  
6 produce less informed and less protective  
7 decisions. In effect, the proposal sacrifices  
8 relevant and reliable scientific information, a  
9 cornerstone of effective environmental protection  
10 on the altar of so-called transparency. A  
11 proposal to ignore science when all of the  
12 supporting data is not public would preclude using  
13 even recent studies that are subject to  
14 confidentiality agreements or legal restrictions  
15 on disclosure. It also will certainly and  
16 deliberately exclude older studies where the data  
17 is no longer available, even if their findings are  
18 widely accepted as authoritative and form the  
19 basis for EPA regulations that have proven  
20 effective in protecting peoples' health for many  
21 years.  
22 The proposal is evasive about its targets using

1 footnote language only a lawyer could understand  
2 to identify two seminal air pollution studies that  
3 it excludes and says nothing at all about what  
4 other important studies it would ban. Written  
5 comments via the Environmental Protection network  
6 will spell out the policies that proposes many  
7 legal and policy defects in detail. The proposal  
8 is brief and cursory and provides far too little  
9 information to meet the legal requirement to alert  
10 the public to its substance and basis. It would  
11 prohibit EPA from considering important science in  
12 rulemaking even though the laws governing EPA's  
13 use of science require it casting a wide net. It  
14 sheds little light on how the proposal would work  
15 and no light at all on its environmental  
16 consequences. Instead of explaining how EPA will  
17 implement and interpret the rule, it largely  
18 throws these questions to the public. It doesn't  
19 show a need for any rule much less an absolute  
20 rule that sweeps across eight statutes. It claims  
21 its approach is consistent with a host of policies  
22 and studies but what Environmental Protection



1 Agency looked at them it found almost no support  
2 for the proposal and in some cases the authors  
3 have objected to the use of their studies and it  
4 posed the proposal. In sum, there is neither a  
5 legal basis nor a need for this rule. It would  
6 require the EPA violate explicit statutory  
7 provisions and unlawfully shifts the basis for  
8 deciding what science to use in rulemaking away  
9 from the statutory goals of reliability and  
10 environmental protection to so-called  
11 transparency, a term not found in the relevant EPA  
12 statutory provisions. It is too full of undefined  
13 or ambiguous terms to create a workable legal  
14 frame work. In other words, the proposal is  
15 unintelligible, unlawful and unworkable. EPA, I  
16 respectfully request that EPA withdraw it.

17 MS. RADZIKOWSKI: Thank you.

18 MS. OMOJOLA: Good afternoon, my name is Abigail  
19 Omojola, O-M-O-J-O-L-A, and I am here on behalf of  
20 Breast Cancer Prevention Partners to speak in  
21 strong opposition to the proposed rule and to urge  
22 the EPA to withdraw it immediately.

1 Breast Cancer Prevention Partners is a national  
2 organization committed to preventing breast cancer  
3 by eliminating exposures to chemicals and  
4 radiation that have been linked to an increased  
5 risk of the disease. We take great care and pride  
6 in ensuring that all of our public education,  
7 programs and policy advocacy are based on a strong  
8 foundation of peer-reviewed science.  
9 Contrary to its stated intent, the proposed rule  
10 under consideration today would not serve to  
11 provide the public with greater "confidence in and  
12 understanding of" EPA's regulatory decisions.  
13 Rather, it would deeply undermine the ability of  
14 the EPA to use all the best available science in  
15 its regulatory decisions, which, in turn, will  
16 negatively impact public health. In fact, it is  
17 hard not to come to the conclusion that the  
18 proposed rule is a strategy to disregard many  
19 studies that have shown negative impacts of  
20 chemical exposures on public health.  
21 Breast cancer is a disease with complex causation  
22 and often a long latency period. Only about 10% of

1 breast cancer diagnoses can be attributed solely  
2 to genetics. Breast cancer risk is a web of  
3 interactions between environmental exposures,  
4 genetics and lifestyle characteristics. Much of  
5 the data showing the connection between unsafe  
6 chemical exposures and breast cancer risk comes  
7 from laboratory studies. However, epidemiological  
8 studies, and in particular longitudinal studies,  
9 provide unique insights and important  
10 corroboration of these findings.  
11 The proposed rule's requirement that underlying  
12 data must be made public before the EPA can  
13 consider a study in agency decision-making will  
14 have the practical impact of eliminating many of  
15 these critical studies from the regulatory  
16 process. Epidemiological studies involve the  
17 collection of extensive and detailed individual  
18 health data and researchers have an ethical  
19 obligation to protect the confidentiality of that  
20 data. The elimination of these studies will result  
21 in less scientifically sound conclusions and, most  
22 importantly, the public health benefits they would

1 provide.

2 An example of the kind of study this proposed rule  
3 could eliminate from the EPA's regulatory process  
4 is the National Institute of Environmental Health  
5 Sciences' Sister Study. From 2003 to 2009, the  
6 Sister Study enrolled 50,000 women whose sisters  
7 had breast cancer. Those women will be followed  
8 for a minimum of 10 years to study how genes and  
9 the environment interact to impact the risk of  
10 developing breast cancer, leading to a greater  
11 understanding of ways to prevent both breast  
12 cancer and other diseases. It does not serve the  
13 public interest to hinder the EPA's ability to use  
14 this type of research in their regulatory  
15 decisions.

16 This proposed rule will not only undermine the use  
17 of previously conducted epidemiological studies;  
18 it will also damage the ability of researchers to  
19 conduct future studies. Recruitment of study  
20 participants will be severely undermined if people  
21 fear their personal information may be made  
22 publically available. This is particularly true

1 for vulnerable marginalized communities that are  
2 both disproportionately exposed to toxic chemicals  
3 and have historical reasons to distrust  
4 researchers. Yet, it is the exposures experienced  
5 by these communities, and the resulting health  
6 effects, that we most need to understand and  
7 address.

8 The integrity of scientific methodology is  
9 thoroughly reviewed at many points in the  
10 processes of designing, conducting and publishing  
11 scientific research already. There is the  
12 competitive grant process; Institutional Review  
13 Board requirements; peer-review prior to  
14 publication; the expertise and judgment of career  
15 EPA scientists when considering the strength and  
16 relevance of studies included in EPA decisions;  
17 and finally review of those decisions and the  
18 underlying science by EPA's Science Advisory  
19 Board; all provide more than sufficient  
20 opportunities to assess the soundness of  
21 scientific studies. This proposed rule is not only  
22 damaging, it is unnecessary.

1 On behalf of the 1 in 8 women who will be  
2 diagnosed in their lifetime and the 40,000 lives  
3 that are lost each year in the U.S. to breast  
4 cancer, the EPA has an obligation to take action  
5 to prevent this devastating disease. This proposal  
6 takes a hard step away from that goal.

7 Thank you for the opportunity to provide this  
8 public comment urging the EPA to withdraw this  
9 misguided and damaging proposed rule.

10 MS. RADZIKOWSKI: Thank you.

11 MS. STOBERT: If Speaker 17, Alan Lockwood, and  
12 Speaker 18, Elizabeth Woolford will take seats at  
13 the speaking table. If Number 19, Paul Allwood,  
14 and Speaker 20, John Stine, would take seats at  
15 the on-deck seating.

16 Mr. LOCKWOOD: Good afternoon, my name is Alan  
17 Lockwood, A-L-A-N, L-O-C-K-W-O-O-D. Thank you for  
18 this opportunity to speak on behalf of Physicians  
19 for Social Responsibility. I am a board-certified  
20 neurologist and an elected fellow of the American  
21 Neurological Association and the American Academy  
22 of Neurology, and Professor Emeritus of Neurology

1 at the University at Buffalo. PSR is a 501(c)(3)  
2 scientific and educational organization  
3 headquartered in Washington DC with over 30,000  
4 physicians, medical students, and others across  
5 the country. Our mission is to protect human life  
6 from the gravest threats to health and survival.  
7 We submit this testimony in strong opposition to  
8 the EPA's proposed rule, "Strengthening  
9 Transparency in Regulatory Science." The proposed  
10 rule would change the standards for the inclusion  
11 of studies used by the Agency and lead to the  
12 abolition or weakening of virtually all  
13 protections under the purview of the Agency.  
14 Under the misleading veil of "transparency," the  
15 proposed rule could force investigators to invade  
16 the confidentiality of research participants and  
17 make confidential and private data open to all. A  
18 similar concern was voiced by the current  
19 Scientific Advisory Board, writing, "there are  
20 also sensitive situations where public access may  
21 infringe on legitimate confidentiality and privacy  
22 interests ..." The rule could replace evidence-

1 based decision-making with arbitrary  
2 determinations based on political considerations.  
3 Peer-reviewed research has led to important gains  
4 in health. The Clean Air Act protects us from air  
5 pollution and is arguably the most health-  
6 protective law in effect. I have written  
7 extensively about this in The Silent Epidemic.  
8 Peer-reviewed studies link air pollutants with  
9 leading causes of death in the United States  
10 including heart disease, stroke, and respiratory  
11 diseases. Additional studies link particulates to  
12 Alzheimer's disease and Type II Diabetes. Seminal  
13 studies include the Harvard Six Cities Study that  
14 involved 8,111 adults followed for between 14 and  
15 16 years showing a clear link between pollution  
16 and mortality. The Women's Health Initiative  
17 study involving 65,893 post-menopausal women that  
18 demonstrated a link between particulates, and  
19 cardiovascular disease and stroke mortality. I  
20 attended closely to the study of 1,705  
21 neurologist-confirmed strokes showing that a  
22 transient increase in small particles was



1 associated with a statistically significant  
2 increase in strokes even though levels were within  
3 limits "generally considered safe" by the EPA. A  
4 congressionally mandated report prepared by the  
5 EPA projected that by 2020 Clean Air Act  
6 provisions would save two trillion dollars per  
7 year in adverse health impacts. Many savings will  
8 positively impact the budgets of state and federal  
9 agencies at a time of ballooning deficits.  
10 EPA rules provide significant protection for the  
11 developing brains of children by establishing  
12 limits on lead. Lead impairs brain development  
13 and has adverse effects on behavior and cognition.  
14 Other data link arsenic levels in drinking water  
15 to Type II diabetes and cancer.  
16 Natural gas production, particularly "fracking"  
17 harms health due to human proximity to wells,  
18 pumping stations, and contamination of water  
19 supplies and contributes to climate change.  
20 Protecting the privacy of research participants is  
21 a keystone of biomedical research and one with  
22 which I have had years of personal experience as a

1 member then chairman of the Buffalo VA  
2 Institutional Review Board. Peer-reviewed  
3 journals require authors to affirm their adherence  
4 to federal privacy protections as a pre-condition  
5 for publication. This standard should not be  
6 abolished. PSR's mission is to "to protect human  
7 life from the gravest threats to health and  
8 survival." To protect the scientific integrity of  
9 the EPA and protect health, we oppose the  
10 deceptively named proposal, "Strengthening  
11 Transparency in Regulatory Science." Thank you.

12 MS. RADZIKOWSKI: Thank you.

13 MS. WOOLFORD: My name is Elizabeth Woolford and I  
14 am an undergraduate student at Wesley University  
15 and an intern with the National Parks Conservation  
16 Association. My comments are my own. Today, I  
17 would like to express my strong opposition for the  
18 proposed rule titled, "Strengthening Transparency  
19 in Regulatory Science." This rule would have  
20 sweeping impacts on the ability for the EPA to  
21 consult public health studies, as almost all  
22 utilized data from medical records that are

1 protected from public scrutiny. Their proposal  
2 would force the Agency to disregard such studies  
3 unless scientists reveal their participants'  
4 private medical information. Scientists  
5 conducting public health research would then be  
6 left with two unacceptable options: To break  
7 confidentiality agreements in order to disclose  
8 the personal health records of their subjects; or  
9 not to have their studies consulted by policy  
10 makers at all. As a result, some of the most  
11 significant research from the past decade, for  
12 example studies linking air pollution to premature  
13 deaths and measuring human exposure to pesticides  
14 would be left completely unavailable to the  
15 Agency. I would like to emphasize that data of a  
16 sensitive nature does not imply inherent  
17 unreliability, rather this kind of information is  
18 essential to achieve an accurate understanding  
19 about how human health is impacted by chemicals,  
20 chemical compounds and other substances. Such an  
21 understanding is necessary for the EPA to fulfill  
22 its mission to protect public health and protect

1 the environment with the creation of effective  
2 regulations under the Clean Air Act, Clean Water  
3 Act, CERCLA, and other cornerstone environmental  
4 laws.

5 This proposal is based on a false premise about  
6 data quality and acceptability. There is no  
7 reason why one cannot protect the confidentiality  
8 of subjects and at the same time use information  
9 about them. This rule questions the integrity of  
10 the scientists and doctors conducting public  
11 health studies by implying that these  
12 professionals may have biased their subjects to  
13 achieve a particular outcome. However, it is  
14 evident that peer review already protects against  
15 for such bias.

16 For these reasons, one must consider how this  
17 proposal fails to achieve the requirements of  
18 OMB's Information Quality Act. It is clear that  
19 this proposal is overkill and would unnecessarily  
20 exclude scientific studies simply because they do  
21 not meet an unrealistic transparency standard.

22 This would all be to the detriment of public and

1 environmental health.

2 In addition, this rule would create a blatantly

3 political and dangerous double standard by

4 eliminating the use of studies that follow

5 confidential health guidelines while allowing

6 polluting industries to keep their data under

7 wraps. That alarming imbalance would skew

8 regulation inherently favoring polluters over

9 those impacted by their pollution.

10 Furthermore, this proposed rule would cross Agency

11 lines and interfering with informed policy making

12 and undermining the safeguards that protect

13 millions of people, our public lands, and the

14 space and places we call home. EPA's scientific

15 research and related policies influences the

16 decisions of other agencies charged with

17 protecting our health and environment. For

18 example, the National Parks Service needs access

19 to the best available science to inform decisions

20 that protect parks' air, land, water, wildlife and

21 people. If EPA goes forward in placing

22 unreasonable limits on the scientific record, the

1 National Parks Service and similar agencies will  
2 be unable to protect public health and the  
3 environment to the extent they otherwise could.  
4 As a young person, this proposal leaves me  
5 frightened. Within a decade I will be part of the  
6 generation that inherits the responsibility for  
7 this nation. If adopted, the negative  
8 implications of this rule will not be short-lived  
9 and could forever change the safeguards that EPA  
10 is supposed to develop to protect public health  
11 and our environment. In the many more decades of  
12 life I have in front of me, I intend to finish my  
13 education in this country, I intend to raise a  
14 family in this country, I intend to enjoy public  
15 lands and outdoor spaces in this country, and I  
16 intend to breathe this country's air and drink  
17 this country's water and eat this country's food.  
18 I hope to do so knowing that the regulatory body  
19 charged with keeping my body and environment safe  
20 has made decisions based on nothing less than the  
21 best scientific information there is. For these  
22 reasons, I urge the EPA to abandon this dangerous

1 and misguided proposal. Thank you.

2 MS. RADZIKOWSKI: Thank you.

3 MS. STOBERT: Speaker Numbers 19 and 20, Paul  
4 Allwood and John Stine, if you would take seats up  
5 here. And Speaker Number 21, Virginia Ruiz, and  
6 Speaker 22, Karen Mongoven, if you would take  
7 seats the on-deck seating.

8 MR. ALLWOOD: Good afternoon, my name is Paul  
9 Allwood. I am Assistant Commissioner of Health  
10 Protection at the Minnesota Department of Public  
11 Health. Commissioner Stine is with me and we're  
12 going to do this joint testimony. Commissioner  
13 Stine will go first.

14 MR. STINE: Thank you. As Commissioner of the  
15 Minnesota Department of Health, Mr. Allwood is the  
16 Assistant Commissioner there, and as Commissioner  
17 of the Minnesota Pollution Control Agency, my name  
18 is John Link Stine, S-T-I-N-E. We are appointees  
19 of Minnesota's Governor, Mark Dayton. We are  
20 deeply disappointed in and troubled by this  
21 proposed rule, "Strengthening Transparency in  
22 Regulatory Science." We have traveled 1100 miles

1 from our home in Minnesota to be here today to  
2 speak against this rule. On May 15, 2018, our two  
3 state agencies commented against this rule in a  
4 letter from Commissioner Malcolm of the Health  
5 Department and myself. Our testimony today  
6 expands upon those comments and provides specific  
7 examples from Minnesota that show why this  
8 arbitrary and non-ethical rule must not be  
9 adopted.

10 MR. ALLWOOD: The first example is that the State  
11 of Minnesota is dealing with a massive area of  
12 contamination with PFAS chemicals, otherwise known  
13 as PFCs. The contamination came from 3M  
14 Manufacturing and disposal sites that contaminated  
15 groundwater on a very massive scale impacting over  
16 150,000 residents. Minnesota's Department of  
17 Health conducted bio-monitoring studies of over  
18 200 people living in those impacted communities to  
19 be able to understand their exposure and their  
20 potential health implications. Those studies help  
21 Minnesota derive health protected values under  
22 state law and furthermore also help the state of



1 Minnesota reach a settlement with 3M Company of  
2 over 890 million dollars. Now, without these  
3 studies and without these data we would not have  
4 been able to be successful in our litigation with  
5 3M Company and residents of the communities that  
6 were impacted by this pollution would have had to  
7 foot this bill.

8 Now, these studies are only possible because we  
9 provided absolute guarantees to the participants  
10 that their data would be protected and that we  
11 would assure its confidentiality. The proposed  
12 rule will make it unlikely that public health data  
13 such as this -- and you heard it from other  
14 testifiers -- would be available for states to  
15 use, but even more so for the EPA to use in its  
16 decision-making. This is to be avoided.

17 MR. STINE: Our second example is the 2015 study  
18 and report that our agencies jointly released  
19 "Life and Breath". We released that report  
20 regarding the health impacts of air pollution in  
21 the Twin Cities Metropolitan Area of Minneapolis  
22 and St. Paul. The study used public health data

1 and mathematical modeling software developed by  
2 the U.S. EPA. EPA's modeling software is based on  
3 published, peer-reviewed scientific studies of the  
4 relationship between human health and air  
5 pollution. The study confirmed air pollution  
6 leads to increased disease and death in our  
7 population. Every year about 2000 premature  
8 deaths, 400 hospitalizations and 600 emergency  
9 room visits occur in the Twin Cities Metropolitan  
10 Area that are caused by fine particle or ground-  
11 level ozone exposure. In fact, the study found  
12 that fine particle air pollution and ground-level  
13 ozone was a causal factor for some deaths and  
14 hospital visits for lung and heart conditions.  
15 The implications of the proposed rule are that  
16 under this rule's requirement for the use of  
17 public data, future public health data on which  
18 studies like our "Life and Breath" were based  
19 would not be available. Public health data and  
20 research relies on citizen confidence in  
21 confidentiality of their personal information.  
22 We believe the rule would lead to an over-reliance

1 on animal studies and toxicological data which  
2 cannot estimate disease burden as well as  
3 population health data and studies. The proposed  
4 rule would lead to weaker environmental  
5 regulations, more air pollution, greater levels of  
6 heart and lung disease and death. As a result,  
7 health care costs will increase. Asthma already  
8 costs the United States 56 billion dollars  
9 annually and the incidence of asthma is  
10 increasing. The rule language under Part 30.8  
11 requires that EPA implement the rule in a manner  
12 that minimizes cost. Ironically, the rule will  
13 lower the cost to EPA and environmental polluters.  
14 A fundamental principal of our environmental  
15 protection law is that polluters pay. The plain  
16 truth is that your rule does not address the  
17 increased costs that come with relaxed  
18 regulations. In fact, the polluters will pay less  
19 and costs will shift onto the public in health  
20 insurance. With that I'll kick it to Mr. Allwood.  
21 MR. ALLWOOD: So, to conclude, to say that state  
22 as public officials we are responsible for

1 protecting the health of our state population,  
2 it's really important for us to be assured that  
3 EPA is going to use the best science in its  
4 regulatory decision-making. This rule severely  
5 brings that into question and we would like you to  
6 know that we are looking at this as an urgent  
7 matter that requires the EPA's attention and would  
8 urge that time be taken to suspend and slow the  
9 process of adopting this rule so that a full and  
10 complete review can be done. Thank you.

11 MR. STINE: Thank you.

12 MS. RADZIKOWSKI: Thank you both.

13 MS. STOBERT: Speaker 21, Virginia Ruiz, and  
14 Speaker 22, Karen Mongoven, if you would come to  
15 the speakers' table. Speaker 23, Steve Milloy,  
16 and Speaker 24, Steve Milloy for John Dunn, if you  
17 would have seats at the on-deck seating?

18 MS. RUIZ: Good afternoon, my name is Virginia  
19 Ruiz. I am the Director of Occupational and  
20 Environmental Health at Farmworker Justice, an  
21 organization devoted to working with migrant and  
22 seasonal farmworkers to improve their living and

1 working conditions. On behalf of my colleagues at  
2 Farmworker Justice and the farmworkers that we  
3 represent, I strongly urge the U.S. EPA to  
4 withdraw its proposed rule, "Strengthening  
5 Transparency in Regulatory Science." If  
6 finalized, this rule would endanger farmworkers  
7 and other vulnerable people across the country.  
8 We oppose EPA's proposed rule for three reasons:  
9 First the rule would prohibit EPA from considering  
10 credible scientific evidence about the dangers  
11 farmworkers face including exposure to pesticides  
12 and other chemicals. Second, the rule would deter  
13 farmworkers themselves from participating in  
14 future scientific studies. Third, the rule would  
15 make it more difficult for Farmworker Justice to  
16 obtain the research we need to advance our  
17 mission. With respect to the first point, the  
18 proposed rule would prohibit EPA from considering  
19 credible scientific evidence about the dangers  
20 that farmworkers face. As EPA's own Science  
21 Advisory Board acknowledged, there are many  
22 reasons why researchers and study participants

1 might choose to keep data confidential, and many  
2 of these reasons have no bearing on the  
3 credibility of a scientific study. For instance,  
4 because farmworkers are often migratory, moving  
5 for work across domestic and international  
6 borders, researchers may be unable to locate  
7 farmworkers they last encountered as study  
8 participants years ago, and thus unable to  
9 renegotiate privacy agreements struck at the time  
10 the research was conducted. Farmworkers  
11 themselves may also have legitimate reasons for  
12 wanting to preserve their privacy. For example,  
13 some research shows that farmworkers face an  
14 increased risk of exposure to chemicals that  
15 impair fetal development resulting in lower IQ  
16 scores, an outcome associated with significant  
17 social stigma. We already suffer from the dearth  
18 of scientific evidence and information about  
19 occupational and environmental health risks that  
20 farmworkers face. EPA should base its regulatory  
21 decisions on the credibility of scientific  
22 evidence and not on arbitrary factors like the

1 public availability of research data.

2 With respect to the second point, the proposed

3 rule would deter farmworkers from participating in

4 future scientific studies. Farmworkers are

5 extremely vulnerable members of our society and

6 it's unlikely they would agree to participate in

7 scientific research without an iron clad guarantee

8 that their identities would be kept confidential.

9 Farmworkers value their privacy for a number of

10 reasons including an undocumented or other tenuous

11 immigration status and insecure employment.

12 Farmworkers whose identities are exposed would

13 risk retaliation from their employers ranging from

14 termination to deportation. As a result the

15 proposed rule would present farmworkers with a

16 false dilemma. They could choose to participate

17 in research studies that might eventually yield

18 better regulatory protections at great personal

19 risk, or they could choose to protect their

20 privacy by refusing to participate in research

21 studies, thus forgoing badly needed protections,

22 also at great personal cost. EPA should not

1 present farmworkers with such a choice.

2 Finally, the rule would frustrate Farmworker

3 Justice's ability to achieve our mission. We rely

4 on credible scientific evidence to educate

5 farmworkers, policy makers and the public at large

6 about the risks farmworkers face. Much of this

7 evidence comes in the form of epidemiological

8 studies that the proposed rule would categorically

9 exclude from consideration unless the underlying

10 data were made publically available. If EPA's

11 proposed rule were to result in fewer scientific

12 studies focusing on farmworkers, as seems

13 inevitable, we would lack information we need to

14 carry out this important aspect of our mission.

15 It would severely undercut our ability to

16 effectively advocate for farmworker health and

17 safety.

18 Accordingly, we urge EPA to protect farmworkers

19 and other vulnerable communities by withdrawing

20 the proposed rule without delay.

21 MS. RADZIKOWSKI: Thank you.

22 MS. MONGOVEN: Good afternoon, I'm Karen Mongoven;



1 K-A-R-E-N, M-O-N-G-O-V-E-N, Senior Staff Assistant  
2 at NACAA, National Association of Clean Air  
3 Agencies, and I appreciate the opportunity to  
4 testify today on behalf of NACAA. NACAA  
5 recommends that EPA withdraw this proposed rule.  
6 In our view the proposal would likely undermine  
7 the very objectives that it's supposed to promote.  
8 In particular, we believe it would hinder EPA's  
9 use of best available science and environmental  
10 regulations and it would likely diminish, rather  
11 than improve, public confidence in the integrity  
12 of EPA's scientific decision-making. Reliance on  
13 best available science is a fundamental  
14 requirement of the Clean Air Act and other  
15 environmental statutes the EPA administers.  
16 Indeed, science-based decision-making is at the  
17 very core of our shared mission as air regulators  
18 to protect public health and the environment from  
19 the harmful effects of air pollution.  
20 There is a long-term trend toward increased  
21 transparency in science including toward providing  
22 greater public access to underlying data and

1 analytical techniques after scientific studies are  
2 published. We think this trend is a laudable one,  
3 but complete public access to underlying data is  
4 not always possible, especially in the case of the  
5 epidemiological studies based on private health  
6 data that must remain confidential. Transparency  
7 concerns must not override EPA's obligation to  
8 consider the full range of peer-reviewed, sound,  
9 scientific research that is available and relevant  
10 to its regulatory decisions.

11 Full public access to underlying data and models  
12 is not necessary to assure the validity of  
13 scientific studies. Rather, the most effective  
14 assurance is the process of peer review itself, a  
15 process to which the vast majority of scientific  
16 information on which EPA relies has already been  
17 subject. When the results of a scientific study  
18 are submitted for publication, the uncertainties,  
19 assumptions, parameters and theories utilized by  
20 the scientists are laid out in the publication.  
21 Peer review analyzes all of these components to  
22 establish validity. The process of peer review

1 has been rigorously developed over centuries. If  
2 EPA believes the peer review process is flawed, it  
3 should explain exactly why it believes the process  
4 is inadequate and how this proposal specifically  
5 addresses those inadequacies. If adopted, the  
6 proposed rule could serve to bar EPA's  
7 consideration of relevant scientific literature  
8 and the establishment of air regulations to  
9 protect public health and the environment  
10 resulting in serious adverse effects on the  
11 nation's air program.

12 In a footnote in the proposal, EPA cites two D.C.  
13 Circuit cases that upheld the Agency's reliance on  
14 confidential data in setting health-based air  
15 quality standards for lead and fine particulate  
16 matter. In that footnote, EPA states that it is  
17 "proposing to exercise its discretionary authority  
18 to establish a policy that would preclude it from  
19 using such data in future regulatory actions."

20 The clear implication is that EPA will discard  
21 rigorously vetted scientific literature in the  
22 service of greater transparency. This would be an

1 abdication of EPA's legal obligations and stated  
2 intention to rely on the best available science.  
3 NACAA is also concerned with a provision that  
4 would require EPA to conduct its own "independent  
5 peer review of scientific studies underlying  
6 significant regulatory decisions." The EPA  
7 included no details about how this provision would  
8 be implemented and moreover the proposal failed to  
9 acknowledge the EPA already has institutional  
10 mechanisms to review and vet scientific  
11 information through panels of scientific experts  
12 including a Science Advisory Board and its Clean  
13 Air Scientific Advisory Committee. EPA does not  
14 explain why scientific literature that has already  
15 undergone peer review and been vetted by EPA's  
16 science advisory panel should be subjected to an  
17 additional layer of peer review. We do recognize  
18 that the proposal would allow the EPA  
19 administrator to grant exemptions to the rule's  
20 requirements on a case by case basis if he or she  
21 determines that "it is not feasible to make  
22 underlying data publically available or to conduct

1 an independent peer review of scientific studies.”  
2 However, the rule does not include any criteria  
3 for how the administrator would make such a  
4 determination. We believe this provision would  
5 have the effect of interjecting the appearance of  
6 politics into what should be a fair and unbiased  
7 assessment. It’s an opportunity for arbitrary  
8 decision-making and it is insufficient to protect  
9 against the exclusion of relevant valid scientific  
10 studies.

11 EPA requested comments on whether the proposal  
12 should be applied retroactively or retrospectively  
13 should they decide to adopt it. We believe the  
14 rule should not be applied retrospectively. To do  
15 otherwise would create significant regulatory  
16 uncertainty by calling into question existing  
17 standards as well as prevent state implementation  
18 plans and other decisions that are based on those  
19 standards.

20 In conclusion, NACAA respectfully requests that  
21 EPA withdraw the proposed rule. If the Agency  
22 does intend to update its approach to transparency

1 and reproducibility it should do so in  
2 consultation with the National Academy of Sciences  
3 and in the spirit of cooperative federalism EPA  
4 should also consult from the earliest stages with  
5 the state and local agencies that are responsible  
6 for implementing our nation's environmental laws.  
7 NACAA appreciates the opportunity to provide the  
8 testimony I offered today and we also intent to  
9 submit written comments to further elaborate on  
10 the concerns I discussed here. Thank you.

11 MS. RADZIKOWSKI: Thank you.

12 MS. STOBERT: If Steve Malloy, Speakers 23 and 24  
13 would come to the speaker's table. Speaker 25,  
14 Meredith McCormick, and Speaker 26, Olivia  
15 Bartlett if you would go to the on-deck seating.

16 MR. MILLOY: Good afternoon, my name is Steve  
17 Milloy. I publish JunkScience.com.. I am making  
18 my comments here on behalf of myself and also Dr.  
19 John Dale Dunn, who is an emergency room physician  
20 in Texas. We are here to support the proposed  
21 transparency initiative. Science transparency in  
22 EPA is long past overdue. When I first started

1 working on EPA issues in 1990, the main  
2 controversy with EPA science was the use of  
3 science policy and default assumptions, like  
4 linear no-threshold model of carcinogenesis. The  
5 problem wasn't necessarily the use of science  
6 policy default assumptions, the problem was,  
7 rather, the EPA's failure to disclose the nature  
8 of those default assumptions in regulatory  
9 actions. In other words, what part of the  
10 regulatory actions was science, what part was  
11 guesswork and what was politics? When I first  
12 reported on this problem from the Department of  
13 Energy in 1994, the Clinton administration tried  
14 to censor my report but they failed. But I didn't  
15 and many others didn't. So here we are, many  
16 years later, making progress on this important  
17 issue.

18 More recently, the major problem with EPA science  
19 has been what has become known as secret science.  
20 Since the 1990's EPA grantees like Harvard's Doug  
21 Dockery and Brigham Young University's Arden Pope,  
22 have refused to make available to the public the

1 raw data used in their epidemiologic studies, and  
2 this is true despite the fact that these studies  
3 were cited by EPA as the principle scientific  
4 basis for major air quality rules like those that  
5 constituted the Obama administration's war on  
6 coal.  
7 Worse, prior EPA administrations actually aided  
8 and abetted Dockery and Pope hiding their data  
9 from public review. In 1996 and 1997 the Clinton  
10 administration refused a request of Congress. In  
11 the 2000's things got so bad Congress actually had  
12 to subpoena the Obama EPA for the data and they  
13 refused to provide it.  
14 I can only conclude that this is because  
15 independent review of the Harvard Six Cities and  
16 the American Cancer Society line of studies would  
17 prove them to be highly problematic, embarrassing  
18 and even fraudulent. Desperate to defend the  
19 indefensible, supporters of Dockery and Pope have  
20 wrongly maintained that making the data in  
21 question public would violate medical and personal  
22 privacy rights. Nothing could be further from the



1 truth. For the most part, data is electronic.  
2 Scrubbed files with key data needed for  
3 independent review can easily be made available.  
4 No one -- no one -- is interested in any personal  
5 or medical data. It has no value to anyone. The  
6 State of California has made such data files  
7 available for use for many years. I know. I have  
8 obtained this data -- over 2 million death  
9 certificates to be precise -- and with it enabled  
10 research to be published that completely debunks  
11 the secret science of Dockery and Pope. Fear of  
12 exposure of their research as faulty, if not fake,  
13 is why Dockery and Pope are so scared of producing  
14 their data for independent review. To make these  
15 comments current, up to date, efforts have been  
16 made this month to obtain the Dockery and Pope  
17 data but they continue to keep their data secret.  
18 Given that the Dockery and Pope research and  
19 related PM2.5 research has been funded by  
20 taxpayers to the tune of more than 600 million  
21 dollars and then this research is used to regulate  
22 the public costing untold billions more dollars

1 without providing any public health or  
2 environmental benefits, the conspiratorial hiding  
3 of this secret data is more akin to crime than  
4 science.

5 If EPA wants to regulate, that is fine, but the  
6 basis of the regulations and the reason for the  
7 regulations must be clearly laid out so there  
8 could be full and fair debate. Harvard's Doug  
9 Dockery and Brigham Young's Arden Pope don't want  
10 independent scientists to check their work for  
11 some reason. Dockery and Pope supporters may  
12 offer whatever excuses they like but we all know  
13 what the reality is: Fear of exposure. Thanks to  
14 the Trump administration the days of secret  
15 science are coming to an end. Thank you.

16 MS. RADZIKOWSKI: Thank you.

17 MS. STOBERT: Speaker 25 and Speaker 26, Meredith  
18 McCormack and Olivia Bartlett are now onstage. If  
19 Speaker 27, Dan Byers, and Speaker 28, Antonia  
20 Herzog, would come to the on-deck seating.

21 MS. McCORMACK: Meredith McCormack, M-E-R-E-D-I-T-  
22 H, M-c-C-O-R-M-A-C-K. My name is Meredith

1 McCormack and I'm a pulmonary critical care  
2 physician at Johns Hopkins University where I care  
3 for patients and I also investigate the effects of  
4 air pollution on lung health in cohort studies of  
5 children and adults. I serve on the American  
6 Thoracic Society Environmental Health Policy  
7 Committee and I'm speaking today on behalf of the  
8 ATS, the American Thoracic Society.

9 The ATS is extremely concerned about the proposed  
10 EPA policy. In short, we believe this policy is  
11 not in the best interests of our profession, the  
12 patients that we serve, or the public health. The  
13 focus on transparency is highly reminiscent of the  
14 rhetoric used by tobacco lawyers decades ago. As  
15 revealed in tobacco industry documents, in 1996 a  
16 tobacco industry lawyer drafted a plan for tobacco  
17 giant, R.J. Reynolds, to combat research that  
18 documented the health effects of second-hand  
19 smoke. A tobacco industry lawyer described a plan  
20 to construct explicit procedural hurdles the  
21 Agency must follow. The memo used the same terms  
22 of transparency, sound science and calls for

1 reproducible science, the language that the EPA is  
2 now using in its proposed policy. While the  
3 guidance provided in that memo was intended to  
4 undermine research studies that documented the  
5 adverse effects of second-hand smoke, the  
6 recommendations provide a road map for any  
7 industry seeking to undermine science that could  
8 lead to greater regulation. While concerning, it  
9 is no accident that EPA is proposing policy once  
10 touted by tobacco industry lawyers. By proposing  
11 this policy, EPA is literally taking a page out of  
12 tobacco industry's playbook to undermine the  
13 legitimate role that science plays in public  
14 policy formation.

15 The ATS supports transparency in upholding  
16 scientific rigor but the approach proposed in this  
17 rule is flawed. The proposed policy would require  
18 all science and biomedical research used by the  
19 Agency in major regulatory actions to have its raw  
20 data and health records made publically available  
21 under the guise of allowing third party analysis  
22 to confirm the results of the research. This

1 artificial standard cannot be met without forcing  
2 the release of confidential patient information  
3 and is in direct conflict with the mandates of our  
4 institutional review boards and updated privacy  
5 laws.

6 As a physician, no doctor or medical society would  
7 advocate ignoring large portions of the medical  
8 literature because the underlying data were not in  
9 the public domain. Medical guidelines are based  
10 on the best available evidence: Evidence that  
11 emerges from multiple peer reviewed publications,  
12 not a single study. The medical field is rapidly  
13 moving towards increasing transparency but this  
14 cannot be applied retroactively. Is the best  
15 available science only the subset of studies whose  
16 data are available for analysis by the public?  
17 That is not the case for medical research studies  
18 and is certainly not the case for studies of  
19 environmental health effects.

20 EPA's new transparency standard introduces a more  
21 severe standard than the FDA uses to make  
22 decisions about the approval of drugs or that

1 Medicare uses to decide which treatments to cover.  
2 As a doctor I would do my patients a disservice if  
3 I ignore the best available evidence to guide my  
4 clinical decision-making. The proposed rule will  
5 allow the EPA to ignore the best scientific  
6 evidence in future decision-making about health  
7 effects of the air that we breathe and the water  
8 that we drink. The Transparency Rule fails to  
9 recognize the power of replication, a key criteria  
10 for defining the strength of scientific evidence.  
11 Replication refers to the fact that consistent  
12 findings from studies in different populations in  
13 different places strengthens the likelihood of an  
14 effect. The proposed rule would create a context  
15 for the EPA administrator to have the discretion  
16 to disregard studies that have provided the  
17 strongest scientific evidence underlying the  
18 dramatic health effects and dramatic improvements  
19 in air quality in the U.S. -- improvements that  
20 have led to measurable health benefits to our  
21 children, our patients and the general public.  
22 For the EPA to use these studies will patients

1 forego their confidential information? Or will  
2 the EPA now ignore the evidence from dozens of  
3 studies that have replicated findings that  
4 pollution is associated with increased risks of  
5 premature death. The Transparency Rule is  
6 unnecessary as there are processes in place to  
7 rigorously review the scientific integrity of the  
8 studies that are used in regulatory science.  
9 In short, we fully concur with the statement from  
10 the editors of several leading scientific journals  
11 that the merits of studies relying on data that  
12 cannot be made publically available can still be  
13 judged. It does not strengthen policies based on  
14 scientific evidence to limit the scientific  
15 evidence that can inform them.  
16 In summary, this policy is issued in bad faith, is  
17 bad for science and bad for patients and bad for  
18 public health. The ATS strongly urges the Agency  
19 to withdraw this ill-conceived policy proposal.  
20 Thank you.  
21 MS. RADZIKOWSKI:  
22 MS. BARTLETT: I'm Olivia Bartlett. B-A-R-T-L-E-

1 T-T. I'm from Bethesda, Maryland and I represent  
2 the 1200 members of Do the Most Good, Montgomery  
3 County. I am a retired PhD health scientist. For  
4 15 years I conducted research involving human  
5 subjects and also served as a peer reviewer for  
6 both grant applications and research papers  
7 submitted for publication. For the next 30 years  
8 I oversaw the scientific peer review of thousands  
9 of applications for funding of a wide variety of  
10 health science studies including the women's  
11 health study that was mentioned by a previous  
12 speaker, so I'm very familiar with the scientific  
13 research and publication process and the rules  
14 regarding protection of human subjects. I also  
15 have asthma, as do my son and my grandson, so I am  
16 also very familiar with the impact of soot and  
17 smog in the air on the ability to breathe.  
18 EPA's mission is to protect health and the  
19 environment. I strongly oppose EPA's so-called  
20 Transparency Rule since it will restrict the  
21 scientific studies that EPA can use to carry out  
22 that mission and to set safety standards for toxic



1 chemicals and pollutants in the air we all breathe  
2 and the water we all drink. The proposed rule was  
3 given an appealing title but it's just a  
4 politically motivated attempt to undermine decades  
5 of progress in protecting human health from  
6 hazards, particularly small particulate pollutants  
7 in the environment, while allowing soot-producing  
8 industries off the hook. The proposed rule is  
9 seriously flawed in several important ways.  
10 First, it reflects former EPA Administrator  
11 Pruitt's woefully inadequate understanding of  
12 scientific research methods, the nature of the  
13 long-term large-scale epidemiologic studies  
14 necessary to gather the kinds of data needed to  
15 determine toxicity of a pollutant and the rigor of  
16 peer review of both research grant applications  
17 and publications. Peer reviewers carefully  
18 scrutinize the methods that will be used to  
19 collect and analyze the data before a research  
20 study is ever funded. Additional peer reviewers  
21 and different ones scrutinize the data collection  
22 and analysis methods and whether the data supports

1 the conclusions, again prior to publication.  
2 Studies with flaws in design, data collection or  
3 data analysis don't make it into reputable  
4 journals. The proposed rule also seriously  
5 underestimates the burden and the consequences of  
6 making all raw data publically available.  
7 Most research funding agencies and journals now  
8 have policies that require researchers to make  
9 their data available to other scientists for  
10 reanalysis, validation and meta-analyses after  
11 publication and this has already been mentioned by  
12 previous speakers. However, many studies involve  
13 sensitive and personal data that could identify  
14 individual subjects even if the subject's name and  
15 address are redacted, so releasing these data sets  
16 to the public would violate patient  
17 confidentiality rules. The proposed rule may also  
18 violate the requirements of the Clean Air Act and  
19 Clean Water Act and other standard acts already  
20 mentioned to use criteria that accurately reflect  
21 the latest scientific knowledge, the best  
22 available science and inclusive analysis of all

1 available studies in assessing potential effects  
2 on public health. Furthermore, the proposed rule  
3 would create an unacceptable double standard for  
4 industry-sponsored and academic research by  
5 allowing companies to shield their confidential  
6 business data, thus corporate secret science would  
7 be okay but data sets that expose individual  
8 subjects' identities would have to be made public  
9 or would be excluded from consideration in  
10 rulemaking. This ill-conceived proposed rule has  
11 been condemned by hundreds of scientists, all but  
12 one of the previous speakers today, and numerous  
13 scientific societies across health and  
14 environmental fields. Editors of prestigious  
15 journals have denounced the proposed rule and  
16 stated excluding relevant studies simply because  
17 they do not meet rigid transparency standards will  
18 adversely affect decision-making processes. The  
19 bipartisan policy center, the bipartisan  
20 environmental protection network represented  
21 earlier by a speaker, the Attorney Generals of  
22 seven states and D.C. who was here earlier and

1 EPA's own Science Advisory Board have also  
2 denounced the proposed rule. Rather than  
3 increasing transparency, the proposed rule will  
4 hamstring EPA, eliminate some of the best science  
5 available to inform standards under the National  
6 Ambient Air Quality Standards program and  
7 jeopardize both the environment and public health  
8 by making it more difficult to adopt rules that  
9 protect public health and the environment in the  
10 future. EPA's long-standing process using data  
11 from peer-reviewed science, EPA in-house  
12 scientists and the EPA Science Advisory Board  
13 works well and mirrors the processes of other  
14 science-based agencies. The system isn't broken  
15 and doesn't need to be fixed. If EPA wants to  
16 accomplish its mission, the proposed rule should  
17 be withdrawn immediately and should not affect any  
18 rulemaking going forward or any of the studies  
19 used in periodic reanalysis of existing rules.  
20 Thank you for allowing me to comment.  
21 MS. RADZIKOWSKI: Thank you.  
22 MS. STOBERT: Speaker 27, Dan Byers, and Speaker

1 28, Antonia Herzog, if you would take seats on the  
2 stage. Speaker 29, Tess Dermbach, and Speaker 30,  
3 Mary Angly, if you would take seats in the on-deck  
4 seating.

5 MR. BYERS: Good afternoon. My name is Dan Byers.  
6 The U.S. Chamber of Commerce strongly supports the  
7 intent of the proposed rule and applauds EPA for  
8 addressing a long-standing problem inherent in  
9 much of its regulatory decision-making processes.  
10 While the Agency's proposed reforms are clearly  
11 controversial they are grounded in a universally-  
12 accepted democratic principle: Citizens have a  
13 right to the data and information that are used in  
14 the development of public policy. This spirit of  
15 openness with respect to the regulatory process is  
16 found throughout government. It is enshrined in  
17 statute and countless federal directives and EPA  
18 memos reinforce the principle and detailed  
19 guidance for implementing it. It is also  
20 supported by experts of all political stripes. In  
21 2012, congressional testimony, President Obama's  
22 Science Advisor, Dr. John Holdren, unequivocally

1 endorsed this idea, stating that: "Absolutely the  
2 data on which regulatory decisions and other  
3 decisions are based should be made available to  
4 the committee and should be made public. The  
5 Chair of EPA's Science Advisory Board during the  
6 Obama administration subsequently echoed this  
7 sentiment. Unfortunately, while this principle is  
8 generally accepted, EPA has not followed it  
9 consistently in practice. In fact, for many years  
10 EPA has relied upon non-public data to justify its  
11 aggressive regulatory agenda. The most egregious,  
12 but certainly not the only, example of this  
13 involves two controversial studies undertaken in  
14 the 1980s that suggest a linkage between certain  
15 types of particulate matter and health outcomes.  
16 The data associated with these decades-old studies  
17 has never been made public but EPA nonetheless has  
18 used them to monetize regulatory benefit claims  
19 that dominate the communications and regulatory  
20 marketing associated with nearly all of its major  
21 rules. It's also worth pointing out here that,  
22 separate from the studies themselves, EPA's

1 benefit monetization is highly subjective and  
2 controversial in and of itself. For example, in  
3 2009 the Agency modified its assumptions in a  
4 manner that resulted in a quadrupling of purported  
5 benefits without any change to the underlying data  
6 and information used to monetize it. We hope that  
7 these sorts of subjective and questionable  
8 practices will be addressed since the Agency  
9 concurrently examines the development of  
10 regulatory cost-benefit analyses. The scale of  
11 EPA's practice in this respect is mind boggling.  
12 Data compiled by the U.S. Chamber found that  
13 between 2000 and 2016, EPA issued 62 rules  
14 claiming a total of 923 billion dollars in  
15 regulatory benefits. Incredibly 898 billion of  
16 these benefits, or 97%, were monetized based on  
17 the non-public data associated with PM2.5. In  
18 fact, these benefits comprise nearly 80% of all  
19 regulatory benefits across the entire federal  
20 government. Even though the vast majority of  
21 these rules were not intended to address PM2.5,  
22 and even though the vast majority of their

1 corresponding claim benefits came from areas of  
2 the country already deemed safe and in compliance  
3 with the standard, the Agency repeatedly touted  
4 these figures to build public support for its  
5 regulations. It's one thing to be cavalier about  
6 transparency principles when their application has  
7 little or no import to public policy. The federal  
8 rules that impact millions of people and billions  
9 of dollars should be held to a higher standard.  
10 For these reasons, we applaud EPA's effort to  
11 establish and meet a higher standard and we  
12 commend the Agency for doing so through the formal  
13 public comment and rulemaking process rather than  
14 simply instituting a new policy. As EPA makes  
15 clear throughout the rule, these changes will  
16 require considerable effort and cooperation, and  
17 despite suggestions otherwise, the proposal  
18 clearly states that its aim is not to exclude  
19 science but rather to ensure: "That over time more  
20 of the data and models underlying the science that  
21 informs regulatory decisions is available to the  
22 public for validation." And, to more broadly



1 quote: "Change Agency culture and practices  
2 regarding data access." The outcome will not just  
3 lead to better public policy, it will improve the  
4 integrity of the rulemaking process and in doing  
5 so increase public trust in, and support for, EPA  
6 itself. Whether you agree with the  
7 administration's regulatory approach or not, that  
8 is a good thing. With that fundamental background  
9 in mind I will close by calling attention to six  
10 high-level areas that warrant emphasis and  
11 attention as the Agency works to finalize the  
12 rule. These are elaborated on in my written  
13 comments.

14 1) Protect sensitive information;

15 2) Formally coordinate with other  
16 agencies working to address similar regulatory  
17 transparency challenges;

18 3) Develop further guidance and processes  
19 for employing the administrator's exemption  
20 authority under the rule;

21 4) Consider alternative approaches to  
22 balancing trade-offs between goals related to

1 transparency and maximizing the quantity and  
2 quality of information relied upon. For example  
3 this could include assigning greater decision-  
4 making weight to publically available data while  
5 still allowing for the consideration of  
6 nontransparent data;

7           5) Where possible, work to protect and  
8 de-identify sensitive information to allow for its  
9 continued use in regulatory decision-making, and;

10           6) Ensure that relevant transparency  
11 information is incorporated into public  
12 communications and marketing materials associated  
13 with regulatory initiatives. Thank you for your  
14 time and consideration today.

15           [Substitution of panel members.]

16 MS. HUBBARD: Thank you.

17 MS. HERZOG: Hello, my name is Antonia Herzog, H-  
18 E-R-Z-O-G, and I am a scientist with a doctorate  
19 in Physics. I am particularly concerned about  
20 preserving the scientific integrity of the EPA. I  
21 work in the Environment and Health Program at  
22 Physicians for Social Responsibility, a nonprofit

1 organization here in D.C. with chapters in  
2 multiple states across the country and over thirty  
3 thousand members and activists around the country.  
4 Our mission is to protect human life from the  
5 gravest threats to health and survival; we number  
6 environmental pollution among those key threats.  
7 PSR would like to express its strong opposition to  
8 the EPA's proposed rule, "Strengthening  
9 Transparency in Regulatory Science." This proposed  
10 rule could arbitrarily exclude many important  
11 scientific studies-including thousands of public  
12 health and epidemiological studies that the Agency  
13 uses to make informed policy decisions regarding  
14 major public health and environmental laws. While  
15 it pretends to be about "transparency", the policy  
16 actually will limit the Agency's ability to use  
17 the best available science thereby weakening  
18 protections for public health and the environment.  
19 In essence it could censor and block much of the  
20 peer reviewed scientific research that has allowed  
21 us to address many serious environmental health  
22 threats over the decades.

1 EPA's proposed rule would place crippling  
2 restrictions on the use of data the Agency would  
3 accept in the rulemaking process by ultimately  
4 requiring investigators to divulge personal  
5 information about the participants in research  
6 studies. Scientific studies that failed to meet  
7 this criterion would not be acceptable to the  
8 Agency. At present, this kind of information must  
9 be kept confidential according to the generally  
10 accepted rules that govern the conduct of research  
11 that must be adhered to by agencies of the federal  
12 government and institutions that receive federal  
13 funds. A particular example that is concerning to  
14 me and is particularly relevant today where it's  
15 so hot outside and the air quality is  
16 questionable, is the Clean Air Act, a bedrock  
17 environmental law that protects us from dangerous  
18 air pollutants. It is such a critical health  
19 protection that would be endangered under this  
20 proposed rule because it relies on a longitudinal  
21 epidemiologic study of thousands of individuals.  
22 This includes the National Ambient Air Quality

1 Standards (NAAQS) in the Clean Air Act. These  
2 standards address six major classes of common air  
3 pollutants, including standards for fine particles  
4 {PM2.5), and these are the backbone of the U.S.  
5 air quality management system.  
6 The Clean Air Act specifies that new or revised  
7 NAAQS be based on scientific criteria that  
8 "accurately reflect the latest scientific  
9 knowledge useful in indicating the kind and extent  
10 of all identifiable effects on public health or  
11 welfare which may be expected from the presence of  
12 such pollutant in the ambient air." EPA has relied  
13 largely on community epidemiology and controlled  
14 human studies in establishing the specific  
15 pollutant levels and averaging times for NAAQS. If  
16 these studies were excluded by the EPA  
17 restrictions it would greatly reduce the  
18 availability of information that has proved to be  
19 significant in assessing the consistency and  
20 coherence of the evidence upon which the standards  
21 are based and would certainly weaken the  
22 scientific basis for maintaining or strengthening

1 those current standards. If the proposed rule is  
2 approved, we could lose the Clean Air Act's  
3 sweeping improvements to the air we breathe that  
4 we've benefited from over the last several decades  
5 thereby putting thousands of lives that are saved  
6 each year at risk, because EPA will no longer be  
7 able to use key scientific research.  
8 PSR's mission is very similar to EPA's stated  
9 mission "to protect human health and the  
10 environment." To accomplish these objectives, we  
11 must protect the scientific integrity of the EPA.  
12 Physicians for Social Responsibility thus,  
13 strongly opposes the EPA's deceptively named  
14 proposal, "Strengthening Transparency in  
15 Regulatory Science." Thank you.

16

17 MS. HUBBARD: Thank you.

18 MS. STOBERT: Speaker 29, Tess Dernbach, and  
19 Speaker 30, Mary Angly. If you come to the  
20 speakers' table. Is Mary Angly in the room?  
21 Okay, we'll come back to her at the end.

22 MS. DERNBACH: My name is Tess Dernbach, T-E-S-S,

1 D-E-R-N-B-A-C-H. I am a third-year law student  
2 at Columbia Law School and a legal intern at  
3 Earthjustice, speaking on behalf of Earthjustice.  
4 EPA's proposed rule, "Strengthening Transparency  
5 in Regulatory Science," requires a choice between  
6 breaching medical privacy or ignoring data for  
7 rulemaking decisions altogether. Breaching a  
8 patient's medical confidentiality can have severe  
9 and wide-ranging consequences for patients' lives  
10 and livelihoods. Various groups have often tried  
11 to access patient data for retaliatory purposes.  
12 For example, when pork industry associates tried  
13 to access the identities of individuals who had  
14 participated in a study by the University of North  
15 Carolina Professor Steve Wing, about the harmful  
16 health impacts of hog farming, or when the  
17 Department of Justice tried to access names of  
18 women who had late term abortions for use in  
19 litigation challenging the Partial Birth Abortion  
20 Ban Act. Employees' health information can be and  
21 is used against them by employers as an excuse for  
22 termination or other poor treatment. Moreover,

1 when the medical confidentiality of research  
2 participants is breached, people are deterred from  
3 participating in research altogether. Medical  
4 confidentiality is a necessary element of modern  
5 medicine. Patients must feel safe telling their  
6 doctors the most intimate details of their lives.  
7 The expectation of confidentiality fosters  
8 openness and trust between doctors and patients  
9 and is crucial to the delivery of medicine and  
10 conducting clinical research. Courts recognize,  
11 too, the importance of medical confidentiality and  
12 privacy. In 1928, Justice Brandeis described the  
13 right of privacy as: "The most comprehensive of  
14 rights and the right most valued by civilized  
15 men." At least five circuit courts have  
16 recognized an individual's constitutional interest  
17 in or right to the privacy of their medical  
18 information. In *Farnsworth v Procter and Gamble*  
19 in the 11th Circuit, the court recognized that:  
20 "Even without an express guarantee of  
21 confidentiality, there is still an expectation,  
22 not unjustified, that when highly personal and



1 potential embarrassing information is given for  
2 the sake of medical information it will remain  
3 private." This right to medical privacy can  
4 extend to beyond publication of medical data to  
5 situations where medical information is available  
6 to those without a legitimate interest in it.  
7 See, for example, Tucson Women's Clinic v Eden in  
8 the 9th Circuit, where the court observed that  
9 even if safeguards against public disclosure were  
10 adequate, the lack of safeguards against release  
11 of information to government employees who have no  
12 need for the information could create a violation  
13 of the right to privacy.  
14 The EPA claims, vaguely, that confidential data  
15 will be protected by redaction or de-  
16 identification. However, these mechanisms are  
17 entirely inadequate to maintain patient  
18 confidentiality. Latanya Sweeney, a Harvard  
19 Professor of Government and Technology, found in  
20 her study simple demographics often identify  
21 people uniquely that she was able to identify 87%  
22 of people in the United States with only their

1 gender, zip code and birth date. She has also  
2 found particular problems in patient  
3 confidentiality de-identification observing that  
4 in many healthcare data sets there will be unique  
5 data about people that can be used to identify  
6 them even when they are not explicitly identified  
7 in the data set. Sweeney found that even without  
8 identifying data in health data sets: "The  
9 remaining data can be used to re-identify  
10 individuals by linking or matching the data to  
11 other databases or by looking at unique  
12 characteristics found in the fields and records of  
13 the database itself."  
14 Paul Ohm from the Georgetown Law School found in  
15 his pivotal work: Broken Promises of Privacy:  
16 Responding to the Surprising Failure of  
17 Anonymization, that using traditional, personally  
18 identifiable information focused anonymization  
19 techniques, any data that is even minutely useful  
20 can never be perfectly anonymous. These studies  
21 seriously undermine government claims that de-  
22 identifying data will provide adequate privacy for

1 patient data contained within research studies.  
2 Because of these reasons and those given before  
3 me, I strongly urge EPA to revoke the proposed  
4 rule immediately. Thank you.

5 MS. HUBBARD: Thank you.

6 MS. ANGLY: Hello, my name is Mary Angly and I'm  
7 interning for the organization Physicians for  
8 Social Responsibility and I've come to speak  
9 against the proposed rule, "Strengthening  
10 Transparency in Regulatory Science." Medical  
11 studies, clinical reports, and real-world field  
12 studies all include data and information that  
13 cannot be made public without violating  
14 confidentiality in patient protection laws. The  
15 proposed rule implies that these studies are not  
16 transparent because researchers necessarily  
17 suppress names and other identifying information  
18 about patients whose health information is  
19 relevant to study findings. Releasing individual  
20 participants' data to the public would violate  
21 confidentiality requirements legally mandated by  
22 the IRB and/or by HIPAA. By restricting these

1 studies, the proposed rule would essentially force  
2 the EPA to base many of its regulatory decisions  
3 on industry-sponsored studies and this rule could  
4 have huge environmental and public health  
5 implications. Despite a supposed scientific  
6 process, the funding source for a study can have  
7 significant implications on study findings. For  
8 example, in a review of research into the health  
9 effects of EPA an evaluation of 115 relevant  
10 studies was conducted in 2009. The review found  
11 that 94% of the publically funded studies found  
12 that chemicals have harmful effects whereas none  
13 of the industry-backed studies found these same  
14 findings. This is a huge disparity that cannot  
15 have occurred due to chance alone. Successful  
16 regulatory policies can have huge and quantifiable  
17 effects on exposure levels in human health.  
18 Biannually, the CDC collects data recording the  
19 blood and urine levels of 265 chemicals in people  
20 across the country. Longitudinal data can be used  
21 to visualize falling exposure levels and thus not  
22 measure the impact of a policy. For instance,